

## Lightning Detector · DVLD-1

The DVLD-1 is designed to give advanced warning of the presence and approach of potentially hazardous lightning activity in the vicinity of a transmission site.

It uses a sophisticated statistical algorithm to provide an estimation of the distance to the storm and to reject potential man-made disturbers.

When connected to a Davicom Remote Monitoring and Control Unit\*, it can be used to switch to an auxiliary power source (UPS) or to temporarily shut down critical equipment during a thunderstorm.

The DVLD-1 has a 4-wire RS-485 interface and it is provided with the Davicom USB-RS485LD USB to RS-485 adapter. The DVLD is powered from the Davicom unit USB port and is provided with a 15-meter long waterproof Cat5E cable.

Specifications	
Max. Detection Radius	40 km
Detection steps	14 steps from 40 km down to 1 km
Lightning type	Cloud-to-Ground, Cloud-to- Cloud
Power	(USB) 5V, 65mA

<sup>\*</sup>requires firmware version 5.54 or higher.



DVLD-1: Outdoor lightning probe



USB-RS485LD: USB to RS-485 adapter



## Intelligent Remote Control

## INSTALLATION AND CONFIGURATION

- Install the DVLD outdoors and secure it on a wall or post using the PVC clamp provided with the unit. The DVLD must be installed vertically so that the cable exits from the bottom of the unit.
- 2. Run the DVLD cable from the probe to the interior of the building.
- Secure the USB-RS485LD to the equipment rack or panel.
- Connect the DVLD cable to the connector labeled DVLD-1 on the USB-RS485LD.

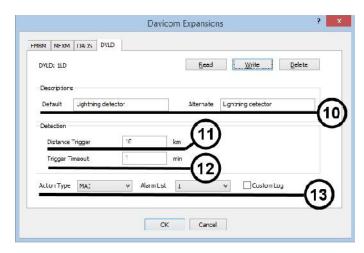


Connect one end of the USB cable to the USB connector on the DVLD.



- 6. Connect the other end of the USB cable to the USB connector located on the rear panel of the Davicom unit.
- 7. Connect to the Davicom unit using the Davlink software.

- 8. In the Davlink software, go to the configuration menu by clicking on the configuration icon so or select *Unit* from the main menu and *Unit Configuration* from the dropdown list.
- 9. Click on *Devices*. Next, click on the *Davicom Expansions* tab and finally click on the *DVLD* tab.



- 10. If necessary, change de Default and Alternate text descriptions.
- 11. Set the Distance Trigger parameter to any value between 1 km and 40 km. Lightning activity outside this range will not be logged. Default value is 10 km.
- 12. Set the Trigger Timeout (delay before returning to normal conditions after the last detected lightning activity). Default value is 10 min.
- 13. Select the Action Type, the Alarm List number and check the Custom log box if the alarms need to be logged.
- 14. Click OK and confirm the changes.
- Use the 1LD01 flag with logical operators in Davlink's workspace to perform actions when lightning activity is detected. Refer to Davicom's Reference manual for more details.

Intelligent Site Monitoring